

Name:

Date:

Student Exploration: Ray Tracing (Lenses)

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

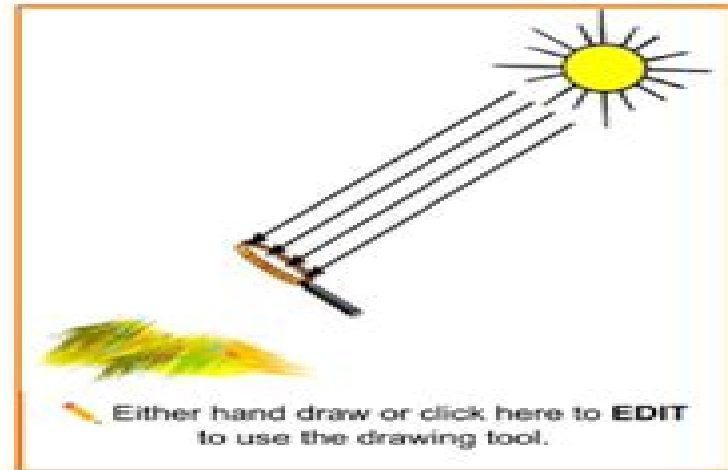
Vocabulary: concave lens, convex lens, focal point, image, magnification, real image, refraction, virtual image

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Agnes is trapped on a desert island with nothing but a magnifying glass. She wants to use the glass to focus sunlight and start a fire. She holds the glass above some dry grass as shown at right.

1. On the diagram, draw the path the Sun rays will likely take from the magnifying glass to the grass.
2. A magnifying glass is an example of a **convex lens**—a lens that curves outward on both sides. Why is a convex lens useful for starting fires?

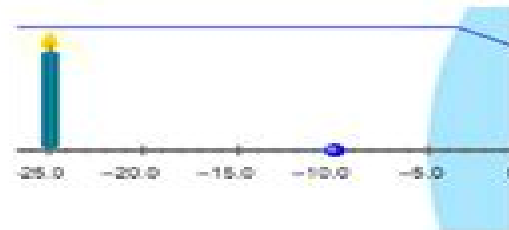
Because the lens can direct the light to a point, it focuses all the light there so that point heats up, and can catch fire.



Gizmo Warm-up

The *Ray Tracing (Lenses)* Gizmo shows light rays passing through a lens. The light rays are bent by **refraction** as they pass through the lens and form a focused **image** to the right of the lens.

To begin, turn on the **Colorize lines** checkbox. Under **Show lines**, turn off the **Central line** and the **Line through focal point** so that only the **Parallel line** is showing.



1. The blue dots in front of and behind the lens are the **focal points** of the lens. Move the candle on the left back and forth and up and down.

What is always true about the light ray that emerges from the right side of the lens?

It always goes through the focal point.

2. Turn off the **Parallel line** and turn on the **Line through focal point**. Move the candle. What do you notice

Answers For Ray Tracing Lenses Gizmo

Ying-Ying Zheng

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers For Ray Tracing Lenses Gizmo:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Answers For Ray Tracing Lenses Gizmo**

In a world inundated with screens and the cacophony of immediate conversation, the profound power and mental resonance of verbal artistry usually disappear in to obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, situated within the musical pages of **Answers For Ray Tracing Lenses Gizmo**, a interesting function of fictional elegance that pulses with raw emotions, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, that interesting opus manuals viewers on a mental odyssey, gently revealing the latent possible and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect its charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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